

ABSTRACT OF THE DISCLOSURE

According to the present invention, an optical communication system is provided, in which a high reliability, a high quality and a low cost transmission are realized. The signal light reached to the optical receiver is detected and
5 converted to an electrical signal by the optical-to-electrical converter. The electrical signal is inputted to the filter that has a convex characteristic with a peak frequency between 2 GHz to 4 GHz, which compensates the frequency characteristic of the signal light. Namely, a concave characteristic of the signal light with a bottom frequency between 2 GHz and 4 GHz due to the
10 accumulated dispersion of the optical transmission path can be compensated.